

TOTAL Polystyrene Impact 940E

High Impact Polystyrene
TOTAL Refining & Chemicals

Message:

POLYSTYRENE 940E is a super high impact polystyrene designed for high gloss sheet extrusion and thermoforming applications that require additional toughness. The combination of high gloss, toughness and high stiffness makes 940E an excellent choice for cups, food packaging, custom sheet and coextrusion applications.

General Information	
UL YellowCard	E55470-296994
Features	Ultra high toughness
	Rigidity, high
	Highlight
Uses	Cup
	Sheet
	Food packaging
Agency Ratings	EC 1907/2006 (REACH)
	FDA 21 CFR 177.1640
UL File Number	E55470
Forms	Particle
Processing Method	Co-extrusion molding
	Sheet extrusion molding
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.8	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2070	MPa	ASTM D638
Tensile Strength	26.2	MPa	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus	2070	MPa	ASTM D790
Flexural Strength	47.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	160	J/m	ASTM D256
Dart Drop Impact	18.1	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	101	°C	ASTM D1525
Flammability	Nominal Value		Test Method

Flame Rating	HB	UL 94
Optical	Nominal Value	Test Method
Gardner Gloss (60°)	92	ASTM D523
Additional Information		
Heat Distortion, ASTM D648, Annealed: 201°F		

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Recommended distributors for this material

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